

Idle Speed Adjustment

1. Start the engine and let it warm up approximately 10 minutes.
2. Park the ATV on level ground, apply the parking brake and shut off the engine.
3. Connect a portable tachometer to the engine following the manufacturer's instructions.
4. Restart the engine and turn the idle adjust screw (**Figure 74**) to set the idle speed. See **Table 9** for the idle speed specification.
5. Open and close the throttle a couple of times and check for variation in idle speed. Readjust if necessary.

WARNING

With the engine idling, move the handlebar from side to side. If idle speed increases during this movement, the throttle cable needs adjusting or may be incorrectly routed through the frame. Correct this problem immediately. Do not ride the vehicle in this unsafe condition.

6. Turn the engine off and disconnect the portable tachometer.
7. Install the right lower side cover (Chapter Fifteen).

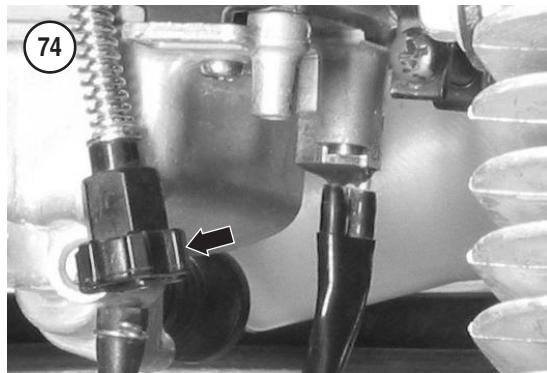
STORAGE

Several months of inactivity can cause a general deterioration of the ATV. This is especially true in extreme climates. This section describes procedures on how to prepare the ATV for storage.

Selecting a Storage Area

The most likely place to store the ATV is in a home garage or workshop. If a home garage or suitable building is not available, facilities suitable for long-term vehicle storage are readily available for rent or lease in most areas. When selecting a building, consider the following points.

1. The storage area must be dry. Heating is not necessary, but the building should be well insulated to minimize extreme temperature variation.
2. Buildings with large window areas should be avoided, or such windows should be masked if direct sunlight can fall on the ATV.



Preparing ATV for Storage

Careful preparation will minimize deterioration and make it easier to restore the ATV to service later. Use the following procedure.

1. Wash the ATV completely. Be sure to remove all dirt in all the hard to reach areas. Completely dry all parts.
2. Run the engine long enough to warm the engine oil. Drain the oil, regardless of the time since the last oil change. Refill with the normal quantity and type of oil as described in this chapter.
3. Drain all gasoline from the fuel tank, fuel hose, and the carburetor. Make sure the fuel tank filler cap is tightened securely and the vent hose is connected properly.
4. Clean and lubricate the control cables as described in this chapter.
5. Remove the spark plug and add about one tablespoon of engine oil into the cylinder. Then turn the engine over the recoil starter to distribute the oil to the cylinder wall and piston. Reinstall the spark plug and connect the spark plug cap.
6. Tape or tie a plastic bag over the end of the muffler to prevent the entry of moisture.
7. Inflate the tires to the correct pressure and move the ATV to the storage area. Support the ATV with all four wheels off the ground.
8. Remove the battery and charge it as described in this chapter. Then store the battery in a safe area away from freezing or excessively warm temperatures. Inspect and charge the battery once a month.
9. Clean the battery terminals, then lubricate them with dielectric grease.
10. When storing the ATV in a humid or salt-air area, spray all exposed metal surfaces with a light film of oil. Do not spray the seat, tires or any rubber part.

11. Cover the ATV with a tarp, blanket or heavy plastic drop cloth. Place this cover over the ATV mainly as a dust cover; do not wrap it tightly, especially any plastic material, as it may trap moisture and cause rust to form. Leave room for air to circulate around the ATV.

Returning ATV to Service

1. Before removing the ATV from the storage area, check air pressure in the tires and inflate the tires to the correct pressure.

2. Remove the plug from the end of the muffler.
3. When the ATV is brought to the work area, refill the fuel tank with fresh gasoline.
4. Charge and install the battery.
5. Check the operation of the engine stop switch. Oxidation of the switch contacts during storage may make it inoperative.
6. Check the brakes and throttle controls before riding the ATV.
7. The remainder of service required depends on length of non-use and operating conditions. Refer to the maintenance and lubrication schedule and determine which areas require service.

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Table 1 MAINTENANCE AND LUBRICATION SCHEDULE

Initial maintenance: 100 miles (150 km) or 20 hours, whichever comes first
Inspect valve clearance
Replace engine oil and filter
Check engine idle speed
Inspect brake fluid level**
Inspect brake system
Inspect reverse lock system
Inspect clutch system
Check for loose or missing fasteners
Inspect wheels and tires
Regular maintenance: 600 miles (1000 km) or 100 hours, whichever comes first
Clean air filter*
Drain air filter housing drain tube*
Inspect spark plug
Inspect valve clearance
Replace engine oil and filter
Check engine idle speed
Clean spark arrester
Inspect drive shaft boots (TRX350FE/FM)
Inspect brake system/lubricate cables
Inspect reverse lock system/lubricate cable
Inspect clutch system
Check for loose or missing fasteners
Check engine guard and skid plates
Inspect wheels and tires
Inspect front and rear suspension

(continued)

Table 1 MAINTENANCE AND LUBRICATION SCHEDULE (continued)

Regular maintenance: 1200 miles (2000 km) or 200 hours, whichever comes first
Inspect/lubricate throttle
Check fuel line
Inspect/lubricate choke cable
Drain air filter housing drain tube
Inspect spark plug
Inspect valve clearance
Replace engine oil and filter
Check engine idle speed
Clean spark arrestor
Inspect brake fluid level*
Inspect brake shoe wear*
Inspect brake system/lubricate cables
Inspect drive shaft boots (TRX350FE/FM)
Inspect reverse lock system/lubricate cables
Inspect clutch system
Check for loose or missing fasteners
Check engine guard and skid plates
Inspect wheels and tires
Inspect front and rear suspension
Inspect steering shaft bearing holder
Inspect steering system/check toe adjustment
Change front gearcase oil (TRX350FE/FM)**
Change rear gearcase oil**

*Inspect more frequently when operating in wet or muddy conditions or when riding in sand, snow or in dusty areas.

**Replace every two years.

Table 2 TIRE INFLATION PRESSURE

	Front and rear tires psi (kPa)
TRX350TE/TM	
Normal pressure	2.9 (20)
Minimum pressure	2.5 (17)
Maximum pressure	3.3 (23)
TRX350FE/FM	
Normal pressure	3.6 (24.8)
Minimum pressure	3.2 (22)
Maximum pressure	4.0 (27.6)

Table 3 MAINTENANCE TORQUE SPECIFICATIONS

	N·m	ft.-lb.	in.-lb.
Clutch adjusting screw locknut	22	16	—
Engine oil drain bolt	18	13	—
Engine oil filter cover mounting bolts	10	—	88
Rear differential Drain plug	12	—	106
Oil check plug	12	—	106
Oil fill cap	12	—	106

(continued)

Table 3 MAINTENANCE TORQUE SPECIFICATIONS (continued)

	N·m	ft.-lb.	in.-lb.
Front differential			
Oil fill cap	12	—	106
Drain plug	12	—	106
Spark plug	18	13	—
Tie rod locknut	54	40	—
Timing hole cap	10	—	88
Valve adjuster locknut	17	12	—
Wheel nuts (front and rear)	64	47	—

Table 4 BATTERY CAPACITY

Battery type	Maintenance-free
Capacity	12 volt, 12 amp hour

Table 5 RECOMMENDED LUBRICANTS AND FUEL

Engine oil	
Classification	API SG or higher
Viscosity	SAE10W-40*
Differential oil	Hypoid gear oil SAE 80
Air filter	Foam air filter oil
Brake fluid	DOT 4
Steering and suspension lubricant	Multipurpose grease
Fuel	Octane rating of 86 or higher

*See text for additional information.

Table 6 ENGINE OIL CAPACITY

	Liters	U.S. qt.
Oil change only	1.95	2.06
Oil and filter change	2.0	2.1
After engine disassembly	2.5	2.6

Table 7 FRONT AND REAR DIFFERENTIAL OIL CAPACITY

	ml	U.S. oz.
Front differential		
Oil change	241	8.2
After disassembly	275	9.3
Rear differential		
Oil change	85	2.9
After disassembly	100	3.4

Table 8 TOE-IN/OUT SPECIFICATIONS

Toe-in/out (TE/TM)	From 18 mm (0.71 in.) toe-in to 12 mm (0.47 in.) toe-out
Toe-out (FE/FM)	3-33 mm (0.12-1.30 in.)

Table 9 MAINTENANCE SPECIFICATIONS

Engine compression	667 kPa (97 psi) @ 450 rpm
Engine idle speed	1300-1500 rpm
Front brake lever free play	25-30 mm (1-1 1/4 in.)
Front brake lining service limit	1.0 mm (0.04 in.)
Ignition timing	
Rear brake lever/pedal free play	15-20 mm (5/8-3/4 in.)
Reverse lever free play	2-4 mm (1/16-5/32 in.)
Spark plug gap	0.8-0.9 mm (0.032-0.036 in.)
Spark plug type	
Standard	NGK DPR7EA-9 or Denso X22EPR-U9
Cold weather operation*	NGK DPR6EA-9 or Denso X20EPR-U9
Throttle lever free play	3-8 mm (1/8-5/16 in.)
Valve clearance	
Intake and exhaust	0.15 mm (0.006 in.)

*Below 41° F (4° C).

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